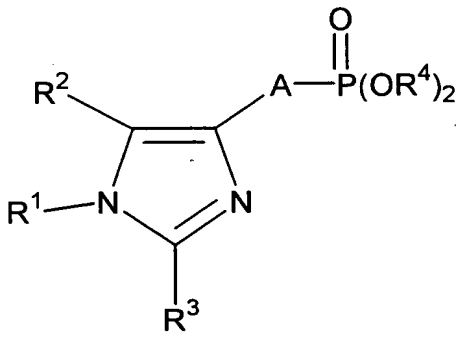
CLAIMS

1. An imidazole alkylphosphonate of the general formula (I):



(I)

wherein;

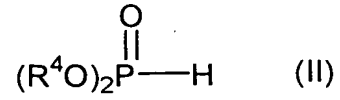
R^1 is an amino-protecting group;

R^2 and R^3 are the same or different and are each a hydrogen atom, a lower alkyl group, or a hydroxy-(lower alkyl) group;

R^4 is a lower alkyl group, a halogenated lower alkyl group, or a substituted or unsubstituted phenyl group; and

A is an optionally substituted straight chain alkylene group having 1 - 3 carbon atoms.

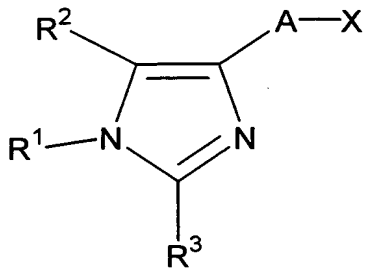
2. A method for the preparation of an imidazole alkylphosphonate of the general formula (I) in claim 1, characterized by reacting a phosphonate derivative of the general formula (II):



(II)

wherein R^4 is as defined in claim 1,

with an imidazole derivative of the general formula (III):



(III)

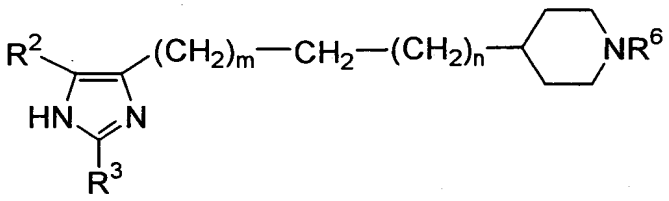
wherein;

X is a halogen atom, a methanesulfonyloxy group, or a p-toluenesulfonyloxy group; and

R^1, R^2, R^3, and A are as defined in claim 1,

in the presence of a base.

3. A method for the preparation of an imidazole derivative of the general formula (VI):



(VI)

wherein;

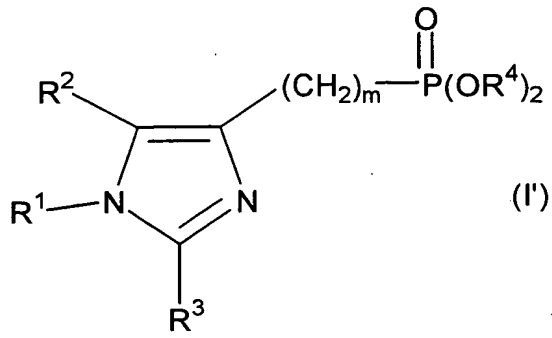
R^2 and R^3 are as defined in claim 1;

m is an integer of 1 - 3;

n is an integer of 0 - 3; and

R^6 is a hydrogen atom or a lower alkyl group,

characterized by reacting an imidazole alkylphosphonate of the general formula (I'):



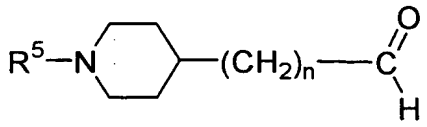
(I')

wherein;

R^1, R^2, R^3, and R^4 are as defined in claim 1; and

m is as defined above,

with a piperidine compound of the general formula (IV):



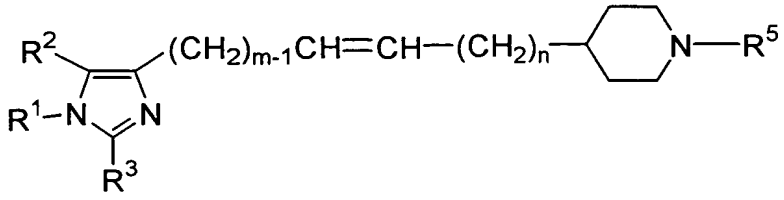
(IV)

wherein;

R^5 is an amino-protecting group or a lower alkyl group; and

n is as defined above,

to give a compound of the formula (V):



(V)

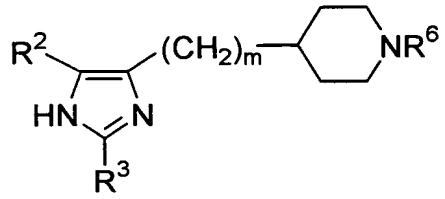
wherein;

R^1, R^2, and R^3 are as defined in claim 1; and

m, R^5, and n are as defined above,

and then reducing said compound.

4. A method for the preparation of an imidazole derivative of the general formula (IX):



(IX)

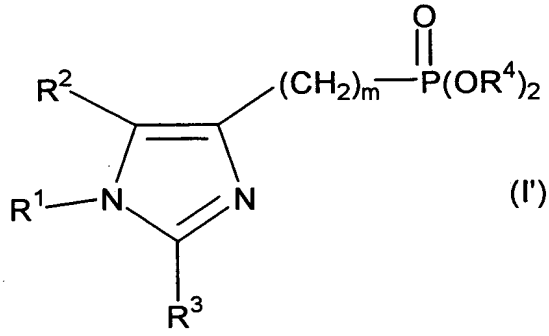
wherein;

R^2 and R^3 are as defined in claim 1;

m is an integer of 1 - 3;

R^6 is a hydrogen atom or a lower alkyl group,

characterized by reacting an imidazole alkylphosphonate of the general formula (I'):



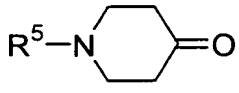
(I')

wherein;

R^1, R^2, R^3, and R^4 are as defined in claim 1; and

m is as defined above,

with a piperidone compound of the general formula (VII):

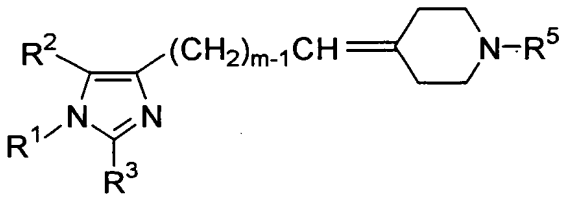


(VII)

wherein R^5 is an amino-protecting group or a lower alkyl

group,

to give a compound of the formula (VIII):



(VIII)

wherein;

R^1, R^2, and R^3 are as defined in claim 1; and

m and R^5 are as defined above,

and then reducing said compound.